

# HISTORY OF MEDICINE – HONORS

History 379-H01

## FALL 2004 SYLLABUS

**Stephen Pemberton, Ph.D.**

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### **Class Meetings**

Kupfrian Hall 202, NJIT Campus  
10–11: 25 a.m. Mondays and Thursdays

### **Office & Contact**

Cullimore Hall 324, NJIT Campus  
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### **Office Hours**

Mondays 3–4:30 p.m., Thursdays 1–2 p.m., and by appointment

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This course examines the history of medicine and public health in North America, from the colonial era to the present.

Readings, lectures and discussion will focus, in part, on the practice of medicine; they will examine healers and patients, therapies and medical innovations, as well as the ways that religion, government, business, and lay people have impacted medicine and public health over the last three centuries. Thus, for instance, we will consider questions like the following: Who practiced medicine? How did healers gain legitimacy in the eyes of their patients? How have medical discoveries influenced efforts to combat disease? We will cover such topics as the emergence of the medical profession, the rise of the hospital, the roles of the laboratory and medical technology in modern medicine, and the different choices faced by physicians and patients in their efforts to promote health.

Last but not least, the course will explore how politics, cultural beliefs, and religious values have been an integral part of the history of medicine and public health in North America. We will see, for instance, medical and health issues illuminate matters of class, race and gender in America, how social movements have impacted efforts to promote health (including Jacksonian populism, 19<sup>th</sup>-century evangelical Protestantism, women's suffrage, and Civil Rights), how industrialism, big business, and consumerism have influenced medical and public health practice, and how the federal government has developed health care policy (from the 1906 Food and Drug Act through to the passage of Medicare in the mid-1960s).

**Readings.** Five books and one article make up the required reading for this course. The books are available at the NJIT campus bookstore and through on-line booksellers. A master copy of the article is held “on-reserve” at Van Houten Library. You can check the article out to read and/or to make a copy for your personal use.

**Books**

- John Harley Warner and Janet A. Tighe, eds. *Major Problems in the History of American Medicine and Public Health* (Houghton Mifflin Company, 2001)
- Charles E. Rosenberg, *The Cholera Years: The United States in 1832, 1849, and 1865* (University of Chicago, 1987 ed.)
- Michael Bliss, *The Discovery of Insulin* (University of Chicago, 1984)
- James H. Jones, *Bad Blood: The Tuskegee Syphilis Experiment* (Simon & Schuster, September 1992 ed.)
- Jeff Lyon and Peter Gorner, *Altered Fates: Gene Therapy and the Retooling of Human Life* (W. W. Norton, 1996)

**Article** (on “reserve” at Van Houten Library)

- Excerpt from Laurel Thatcher Ulrich, *A Midwife’s Tale: The Life of Martha Ballard, Based on Her Diary, 1785-1812* (Vintage Books, 1990), 20-66.

**Assignments and Grading**

The student will write two short papers in this course and take a mid-term and final exam. All students will be evaluated on their written and oral communication over the course of the semester. Please be mindful that it is a primary goal of this course to promote critical thinking about American medicine and society, both past and present.

**Assignments and Due Dates**

Essay One	10%	October 7
Mid-term Exam	25%	October 18
Essay Two	20%	November 22
Final Exam	35%	December 13–17, schedule to be determined
Participation	10%	
Course Grade	<hr/> 100%	

**Essay One.** Your first essay will address some aspect of pre-1900 American medicine or health. A choice of paper topics will be distributed to the class at least one week in advance of the due date. The student will choose one of the topics and write a 2-page, double-spaced essay on it. This short essay assignment counts for 10% of your final course grade, and is due at the beginning of class on **Thursday, October 7.**

**Essay Two.** A choice of paper topics concerning 20<sup>th</sup> century American medicine or health will be distributed to the class at least a week in advance of this second writing assignment. The student will write a 4-6 page essay on one of the designated topics.

This second essay counts for 20% of your final grade, and is due at the beginning of class on **Monday, November 22**.

In writing your essays, you should recognize that stronger essays will do some or all of the following:

- Have a thesis – i.e., an idea or argument – that informs your analysis of the topic, and that is presented in an organized and persuasive way.
- Discuss how the medical/health topic is related to events that are simultaneously taking place in American society, politics, and/or culture.
- Point out how the topic speaks to specific themes, problems, or controversies identified in the course readings or lectures.
- Examine how the topic enhances an understanding of intellectual, practical, or technical developments in medicine or public health.
- Refer to readings and sources assigned in the class and/or covered in class lectures and discussions and cite them properly.
- Demonstrate the student's grasp of the main concepts and arguments presented in the readings and lectures.
- Identify the limitations of the sources and arguments found in the readings and/or source material.
- Use a clear prose writing style that is grammatical (properly punctuated), free of spelling errors, and thoughtful in tone.

Please be mindful that late papers will be penalized, and that plagiarism will not be tolerated in any of your written work. The university's policies on plagiarism will be enforced. Plagiarism involves using the written or oral work of others without consent or acknowledgement, and/or representing that work as your own. If you have any concerns about plagiarism or its meaning, please consult with the professor.

The Mid-term Exam will be given on **Monday, October 18**. The mid-term will cover all material covered in the course to that point in the course, and will count 25% of your final course grade.

The Final Exam will be given during NJIT's regularly scheduled exam week, December 13-17. (The time and place will be announced by the University in November.) The exam will cover the entire course, but will emphasize readings, lectures and discussions since the mid-term exam. This exam will amount to 35% of your final course grade.

Participation will count 10% of your final grade. The student should come to class prepared to discuss the assigned reading. Lectures will often refer to these readings. Occasionally throughout the semester, the professor may ask the student to answer questions about the reading in a short in-class writing assignment. The class participation grade will reflect the student's in-class performance in both their oral and written comments. Active participation in class will improve your course grade, with a maximum of 10 points added to your cumulative essay and exam scores for the semester.

Students who choose not to participate in class risk being penalized with no additional credit on top of their cumulative essay and exam scores.

### **Respect for Persons and the Learning Environment**

In the interest of an open exchange of ideas and collegiality, everyone participating in the course should strive to respect their classmates as persons. The professor will make every effort to facilitate a respectful environment for learning, but students should keep in mind their own responsibilities in the class room.

Students who have special needs or concerns that might impact their learning experience should feel free to raise or discuss their situation with the professor. The professor will hold all private communication in confidence.

### **Semester Schedule**

**Mon, Aug 30. Introduction: Health and Healing in American History**

**Thurs, Sept 2. A New World of Disease: Natives and Immigrants After 1492**

*Major Problems: 2 Essays* (15 pages)

- James Patterson, “Disease in the History of Medicine and Public Health,” 17-24.
- Colin Calloway, “Indians, Europeans, and the New World of Disease and Healing,” 41-48.

*Major Problems: 3 Documents* (6 pages)

- “Le Page du Pratz, a French Observer in Louisiana, Reports on Natchez Nation Healing Practices, 1720-1728,” 28-30.
- “A Virginia Domestic Guide to the Diseases of the American Colonies Makes ‘Every Man His Own Doctor, 1734’” 37-39.
- “Andrew Blackbird of the Ottawa Nation Records a Story from Indian Oral Tradition About the Decimation of His People by Smallpox in the Early 1760s, 1887,” 40.

**Mon, Sept 6. Labor Day – No Class.**

**Thurs, Sept 9. The Meaning of Epidemics in Colonial America (and the Great Inoculation Controversy of 1721)**

*Major Problems: 1 Essay* (6 pages)

- John B. Blake, “Smallpox Inoculation Foments Controversy in Boston,” 48-54.

*Major Problems: 5 Documents* (10 pages)

- “Cotton Mather, Boston Minister, Proselytizes for Smallpox Inoculation, 1722,” 30-33
- “William Douglass, a Boston Physician, Decries the Dangerous ‘Infatuation’ with Smallpox Inoculation, 1722,” 33-34
- “A Broadside Laments the Death of Fifty-Four in a Hartford Epidemic, 1725,” 35.

- “Zabdiel Boylston of Boston Recounts His Experiences as the First Physician to Inoculate Against Smallpox in the American Colonies, 1726,” 36-37.
- “A Virginia Domestic Guide to the Diseases of the American Colonies Makes ‘Every Man His Own Doctor,’ 1734,” 37-39.

Handout: On Reserve at Van Houten Library (47 pages)

- Begin reading excerpt from Laurel Thatcher Ulrich, *A Midwife’s Tale: The Life of Martha Ballard, Based on Her Diary, 1785-1812*, 20-66.

### **Mon, Sept 13. The Medical Marketplace in the Early Republic, 1785-1825**

A Midwife’s Tale: In-class film (35 minute excerpt)

Handout: On Reserve at Van Houten Library (cont.)

- Finish reading excerpt from Laurel Thatcher Ulrich, *A Midwife’s Tale: The Life of Martha Ballard, Based on Her Diary, 1785-1812*, 20-66.

Major Problems: 1 Essay (7 pages)

- “A Laurel Thatcher Ulrich, “The Medical Challenge to Midwifery,” 73-80.

Major Problems: 1 Document (2 pages)

- Elizabeth Drinker, a Philadelphia Quaker, Recounts in Her Diary the Physician-Attended Birth of Her Daughter’s Sixth Child, 1799,” 58-60.

### **Thurs, Sept 16. Medicine and Surgery in the Early Republic, 1785-1825**

Major Problems: 2 Essays (17 pages)

- Lisa Rosner, “The Philadelphia Medical Marketplace,” 80-90.
- Charles Rosenberg, “Belief and Ritual in Antebellum Medical Therapeutics,” 108-114.

Major Problems: 6 Documents (13 pages)

- “George Washington’s Physicians Narrate His Final Illness and Death, 1799,” 57-58
- “Benjamin Rush Tells His Medical Students at the University of Pennsylvania of the Trials and Rewards of a Medical Career, 1803,” 60-62.
- “A Medical Apprentice in Rural South Carolina Records His Daily Life in His Diary, 1807,” 63-64.
- “James Jackson and John C. Warren, Leading Boston Doctors, Solicit Support for Founding the Massachusetts General Hospital, 1810,” 64-67.
- “Walter Channing, a Harvard Medical Professor, Warns of the Dangers of Women Practicing Midwifery, 1820,” 67-69
- “A Young Physician Struggles to Get into Practice in Ohio, 1822,” 70-71

### **Mon, Sept 20. Revolutionary Medicine: The Paris School and American Physicians**

Major Problems: 1 Essay (7 pages)

- John Harley Warner, “Science, Healing, and the Character of the Physician,” 143-149

Major Problems: 3 Documents (5 pages)

- “A New York Medical Student Recounts in His Diary His Emotional Response to Surgery, 1828,” 93-94

- “Jacob Bigelow, a Harvard Medical Professor, Challenges the Physician’s Power to Cure, 1835,” 94-96
- “A Medical Apprentice Writes from Rochester About a Cadaver ‘Resurrected’ for Dissection, 1841,” 96-97

Cholera Years: Book Chapters (Begin 94 pages)

- Read “Introduction,” pages 1-9
- Begin reading “Part 1: 1832,” which includes chapters 1-5, pages 13-98

### **Thurs, Sept 23. Healer as Entrepreneur: Samuel Thomson and Jacksonian America**

Major Problems: 1 Document (2 pages)

- “Samuel Thomson, a Botanic Healer, Decries the Regular Medical Profession as a Murderous Monopoly, 1822,” 71-73

Cholera Years: Book Chapters (94 pages cont.)

- Finish reading “Part I: 1832,” which includes chapters 1-5, pages 13-98

### **Mon, Sept 27. Antebellum Medical Knowledge and Practice**

Major Problems: 2 Essays (9 pages)

- Martin Pernick, “Pain, the Calculus of Suffering, and Antebellum Surgery,” 114-119
- Todd Savitt, “Race, Human Experimentation, and Dissection in the Antebellum South,” 120-123

Major Problems: 4 Documents (8 pages)

- “An Eastern-Educated Physician in Indiana Advises Other Emigrants about the Distinctive Character of Diseases of the West, 1845,” 97-99
- “A Yale Medical Student Decries the Use of Anesthesia in Childbirth, 1848,” 101-102
- “Samuel Cartwright, a Medical Professor and Racial Theorist, Reports to the Medical Association of Louisiana on the ‘Diseases and Physical Peculiarities of the Negro Race,’ 1851,” 103-106
- “A Tennessee Physician Calls for the Cultivation of a Distinctive Southern Medical Literature, 1860,” 106-107

Cholera Years: Book Chapters (Begin 72 pages)

- Begin reading “Part II: 1849,” which includes chapters 6-9, pages 101-172

### **Thurs, Sept 30. Medical Reformers and the Rise of Public Health in America**

Major Problems: 1 Essay (8 pages)

- Regina M. Morantz-Sanchez, “Science, Health Reform, and the Woman Physician,” 149-157

Major Problems: 4 Documents (10 pages)

- “A County Medical Society Bemoans the Prevalence of Quackery and Public Opinion Opposed to Legal Regulation of Medical Practice, 1843,” 127-128
- “Mary Gove Nichols, a Women’s Health Reformer, Explains Why She Became a Water-Cure Practitioner, 1849,” 129-130

- “A New York State Doctor Rails to His Professional Brethren against the Education of Women as Physicians, 1850,” 131-133
- “Elizabeth and Emily Blackwell, Pioneer Women Physicians, Extoll the Woman as the ‘Connecting Link’ Between Women’s Health Reform and the Medical Profession, 1859,” 136-140

Cholera Years: Book Chapters (72 pages cont.)

- Finish reading “Part II: 1849,” which includes chapters 6-9, pages 101-172

### **Mon, Oct 4. Transformative Experience: The Civil War, Hygeine, and Healing**

Major Problems: 1 Essay (9 pages)

- Suellen Hoy, “American Wives and Mothers Join the Civil War Struggle in a Battle against Dirt and Disease,” 181-189

Major Problems: 7 Documents (20 pages)

- “John Griscom, a Physician and Reformer, Reports to the Municipal Government on the Sanitary Condition of the Laboring Population of New York, 1845,” 161-164
- “World Traveler Harriet Marineau Advises America on Keeping Troops Healthy During Wartime, 1861,” 165-168
- “Kate Cummings, an Alabama Nursing Volunteer Writes in Her Journal About Conditions in the Confederate Army Hospital Service, 1862,” 168-172
- “Medical Editor Stephen Smith Preaches the Gospel of Sanitary Reform During Wartime, 1862,” 172-173
- “Nursing Volunteer Louisa May Alcott Reports to Readers at Home About Her Experiences in the Union Army, 1863,” 173-176
- “Maine Physician Writes to His Wife about His Experiences in the Union Army, 1864,” 176-178
- “Sanitary Reformers Build upon Civil War Precedents to Clean Up Post-War Cities, 1865,” 178-181

Cholera Years: Book Chapters (60 pages)

- Read “Part III: 1866,” which includes chapters 10-13, pages 175-234

### **Thurs, Oct 7. The Cholera Years in 19<sup>th</sup>-Century America – Class Discussion**

#### **FIRST ESSAY DUE**

### **Mon, Oct 11. “Scientific Medicine,” the Laboratory, and Professional Authority**

Major Problems: 2 Essays (17 pages)

- John Harley Warner, “Professional Optimism and Professional Dismay over the Coming of the New Scientific Medicine,” 216-224
- Bert Hansen, “Popular Optimism about the Promise of the New Scientific Medicine: The Case of Rabies Vaccine,” 224-232

Major Problems: 5 Documents (18 pages)

- “Henry P. Bowditch, a Recent Harvard Medical Graduate Studying in Europe, Finds in Experimental Laboratory Physiology the Path to a New Scientific Medicine, 1869,” 198-200

- “Clarence Blake, a Young Boston Physician Studying in Europe, Finds in Clinical Specialism the Path to a New Scientific Medicine, 1869,” 201-205
- “Robert Bartholow, a Philadelphia Medical Professor, Celebrates Experimental Medicine and the Ongoing Therapeutic Revolution, 1879,” 205-207
- “Daniel W. Cathell, M.D., Counsels Physicians on How to Succeed in Business, 1882,” 207-212
- “New York Newspaper Launches Fundraising Campaign for ‘Miraculous’ New Diphtheria Cure, 1894,” 213-215

**Thurs, Oct 14. Review for Mid-term Exam**

**Mon, Oct 18. MID-TERM EXAM**

**Thurs, Oct 21. The Rise of the Germ: Science and Morality in America**

*Major Problems: 3 Essays (17 pages)*

- Nancy Tomes, “Germ Theory, Public Health Education, and the Moralization of Behavior in the Antituberculosis Crusade,” 257-264.
- Alan Kraut, “Physicians and the New Immigration During the Progressive Era,” 264-268
- Guenter Risse, “Bubonic Plague, Bacteriology, and Anti-Asian Racism in San Francisco, 1900,” 268-273

*Major Problems: 6 Documents (16 pages)*

- “A Professor of Hygiene Reports on the Success of Municipal Laws in Battling the American ‘Spitting Habit,’ 1900,” 237-239
- “Charles V. Chapin, a Public Health Leader, Proclaims a New Relationship Among ‘Dirt, Disease, and the Health Officer,’ 1902,” 239-241
- “Terence V. Powderly, Commissioner-General of Immigration, Warns of the Menace to the Nation’s Health of the New Immigrants, 1902,” 241-244
- “John E. Hunter, an African-American Physician, Admonishes Antituberculosis Activists to Recognize that Blacks and Whites Must Battle Germs as Their Common Enemy, 1905,” 245-248
- “Advertising Health, the National Association for the Prevention and Study of Tuberculosis Promotes Antituberculosis Billboards, 1910,” 248-249
- “A Georgia Physician Addressing ‘the Negro Health Problem’ Warns that Germs Know No Color Line, 1914,” 250-253

**Mon, Oct 25. Technology and the Social Transformation of American Medicine**

*Major Problems: 2 Essays (11 pages)*

- “Ronald Numbers, “Physicians, Community, and the Qualified Ascent of the American Medical Profession,” 298-303
- Joel Howell, “Making Machines Clinically Useful in the Modern Hospital,” 368-372

*Major Problems: 4 Documents (16 pages)*

- “Educational Reformer Abraham Flexner Writes a Muckracking Report on Medical Schools, 1910,” 277-283
  - “American College of Surgeons Urges Standards for Hospital Efficiency and Physician Accountability, 1918,” 286-289
  - Physician Charles L. Leonard Extolls the Diagnostic Virtues of the New X-ray Technology, 1897,” 351-352
  - “Medical Educator Francis Peabody Cautions Against Blind Faith in the Clinical Authority of the Laboratory, 1922,” 362-365
- Discovery of Insulin: Book Chapters (33 pages)
- Read “Introduction” and Chapter 1, pages 11-44

### **Thurs, Oct 28. Medical Management and the New Morality in Progressive America**

Major Problems: 1 Essay (7 pages)

- Rima Apple, “Physicians and Mothers Construct ‘Scientific Motherhood,’” 332-339

Major Problems: 4 Documents (10 pages)

- “Questions Answered in a Leading Popular Journal about the Medical Status of Inebriety, 1911,” 319-320
- “A Doctor Advises Mothers in a Mass-Circulation Women’s Journal, 1920,” 320-322
- “Psychiatrist Augusta Scott Proselytizes for Greater Legal Reliance on Medical Assessments of Mental Health, 1922,” 322-324
- “Families Seek Expert Advice from the Children’s Bureau when Health Questions Arise, 1916-1926,” 329-332

Discovery of Insulin: Book Chapters (58 pages)

- Read Chapters 2-4, pages 45-103

### **Mon, Nov 1. Eugenics and the “Unfit”: Building a Better Future**

Tomorrow’s Children (1934): In-class film and discussion (55 minutes)

Major Problems: 1 Document (2 pages)

- “Supreme Court Justice Oliver Wendell Holmes Upholds State Sterilization Practices, 1924,” 327-329

Discovery of Insulin: Book Chapters (85 pages)

- Read Chapters 5-7, pages 104-188

### **Thurs, Nov 4. The Discovery of Insulin - Class Discussion**

Discovery of Insulin: Book Chapters (60 pages)

- Read Chapters 8-10, pages 189-248

### **Mon, Nov 8. Chronic Illness and the New Politics of Disease in America**

Major Problems: 1 Essay (7 pages)

- Keith Wailoo, “The Power of Genetic Testing in a Conflicted Society,” 379-386

Major Problems: 3 Documents (10 pages)

- “Science Writer Paul de Kruif and Surgeon General Thomas Parran Join Forces to Admonish Women about the Dangers of Venereal Disease, 1937,” 431-435
- “Public Health Service Physicians Publish Their Observations of Untreated Syphilis in a Population of African American Men in Macon County, Alabama, 1936,” 390-392
- “A Tuskegee Doctor in the Field Requests Research Advice from the Public Health Service Office in Washington, D.C., 1939,” 393
- “Prominent African American Anatomy Professor Montagu Cobb Questions the Assumptions of a Leading Textbook about Biology of Race, 1942,” 366-367

Bad Blood: Book Chapters (60 pages)

- Read chapters 1-4, pages 1-60

### **Thurs, Nov 11. The Making of Post-World War II Medicine: Science, Government and Public Interest**

Major Problems: 1 Essay (8 pages)

- Harry Marks, “The Politics and Protocols of World War II Venereal Disease and Penicillin Research Programs,” 409-416

Major Problems: 5 Documents (15 pages)

- “Texas Congressman ... Pleads for a National Cancer Center, 1937,” 429-431
- A. N. Richards, Head of the Office of Scientific Research and Development, Updates the Medical Community on Promising Wartime Science, 1943,” 394-395
- “The Elite of World War II Medical Science Rally Support for a Greater Public Investment in Biomedical Research, 1945,” 395-400
- “President Truman Confronts Congress About the Need for a National Health Program, 1947,” 435-437
- “Journalist ... Offers a Public Tour of the AMA ... and a Glimpse into the Mind of the Medical Profession, 1947,” 437-441

Bad Blood: Book Chapters (51 pages)

- Read chapters 5-7, pages 61-112

### **Mon, Nov 15. Experiments with Public Trust: Polio, For Example**

Major Problems: 1 Essay (7 pages)

- Allan Brandt, “Polio, Politics, Publicity, and Duplicity: The Salk Vaccine and the Protection of the Public, 451-457

Major Problems: 1 Document (2 pages)

- “The National Foundation for Infantile Paralysis Instructs Parents and Physicians about Human Trials of a New Polio Vaccine, 1954,” 441-443

Bad Blood: Book Chapters (74 pages)

- Read chapters 8-12, pages 113-187

### **Thurs, Nov 18. Critiques of the Medical System in the 1960s and 1970s**

Major Problems: 2 Essays (14 pages)

- David Rothman, “The Doctor as Stranger: Medicine and Public Distrust,” 524-531

- Susan Lederer, “The Tuskegee Syphilis Experiment and the Conventions and Practice of Medical Research,” 416-422

Major Problems: 1 Document (6 pages)

- “P.H.S. Physicians Praise Thirty Years of Government-Sponsored Human Subjects Research in the Tuskegee Syphilis Study, 1964,” 403-405
- “A Private Physician Raises Questions, 1965,” 405-406
- “A Physician-Historian-Activist Explores the ‘Legacy of Distrust’ Fostered by the Tuskegee Study, 1993,” 406-408

Bad Blood: Book Chapters (53 pages)

- Read chapters 12- 14, pages 188-241

**Mon, Nov 22. Bad Blood: The Tuskegee Syphilis Experiment – Class Discussion**

**SECOND ESSAY DUE**

**Thurs, Nov 25. No Class – Thanksgiving Holiday**

**Mon, Nov 29. The Politics of Healthcare: Before and After AIDS**

Major Problems: 2 Essays (19 pages)

- Rosemary Stevens, “Medicare and the Transformation of the Medical Economy,” 485-489
- Charles Rosenberg, “Medicine’s Institutional History and Its Policy Implications,” 9-16

Major Problems: 3 Documents (10 pages)

- “Public Health Advocates Plead for AIDS Awareness, 1980s,” 467-468
- “Journalist Laurie Abraham Captures the Human Drama of Medicare,” 1993,” 474-477
- “Surgeon General C. Everett Koop Remembers the ‘Early Days of AIDS, 1995,” 481-484

Altered Fates: Book Chapters (76 pages)

- Read “Introduction” and chapters 1-3, pages 9-85

**Thurs, Dec 2. Voices of Protest: Consumer Advocacy, Health Activism, and Patient’s Rights**

Major Problems: 1 Essay (9 pages)

- Amy Sue Bix, “Breast Cancer and AIDS Activism Revolutionize Health Policies,” 489-498

Major Problems: 3 Documents (14 pages)

- “Feminists Reclaim Women’s Health Care, 1971,” 501-504
- “Patient Audre Lorde Confronts Breast Cancer, 1980,” 507-512
- “Journalist Anne Fadiman Chronicles the Collision of Healing Cultures,” pp. 520-524

Altered Fates: Book Chapters (75 pages)

- Read chapters 4-7, pages 86-161

**Mon, Dec 6. Altered Fates: Health and Medicine in the Genetic Age – Class Discussion**

*Altered Fates: Book Chapters* (132 pages)

- Read chapters 8-14, pages 162-294

**Thurs, Dec 9. Review Session for Final Exam**

*Major Problems: 1 Essay* (7 pages)

- Allan Brandt, “Risk, Behavior, and Disease: Who is Responsible for Keeping Americans Healthy?” 532-538

**Dec 13-17. FINAL EXAM** (Time and place will be announced in November)